Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 - 4. (Canceled)

5. (Previously presented) A method for integrating applications hosted at different enterprises separated by at least one firewall, the method comprising steps of:

receiving high level business data from a source application program at an agent device operating as a spoke in a first hub and spoke integration system, wherein the agent device comprises an encryption engine;

using the agent device for encoding the high level business data according to a message queuing protocol to provide an MQ message to an MQ server operating as a hub in a second hub and spoke integration system separated from the first hub and spoke integration system by the Internet;

using an encryption engine integrated into the agent device for encrypting the MQ message using Hyper-Text Transport Protocol Secure (HTTPS) to provide an encrypted MQ message;

using the first queue manager for storing the encrypted MQ message for delivery to the MQ server until said MQ server is ready; and

transmitting, via the Internet using HTTP and MQ Series Internet Passthrough (MQ IPT), the encrypted MQ message to a the MQ server;

using a queue manager at the second hub and spoke integration system for decrypting the encrypted MQ message to produce a decrypted MQ message;

using a second agent device for decoding the decrypted MQ message to recover the high level business data:

wherein the high level business data passes through a first demilitarized zone in the first

hub and spoke integration system and a second demilitarized zone in the second hub and spoke integration system in order to reach the MO server:

wherein the first and second demilitarized zones each comprise at least one firewall separating its resident queue manager from the Internet;

using the MQ server for processing of the high level business data when received.

6-7. (Canceled)

8. (Previously presented) The method of claim 5 further comprising maintaining a record of messages received from the source application program.

(Previously presented) The method of claim 8 wherein the record of the messages received from the source application program comprises information on a number of messages received.

10. (Previously presented) The method of claim 8 wherein the record of the messages received from the source application program comprises information on type of messages received.

11-17 (canceled)

18. (Previously presented) A method for transmitting high-level business data in real time to one or more enterprises, the method comprising:

receiving via the Internet and through firewalls, at a first agent acting as a spoke in a first hub and spoke integration system, from an application, an encrypted MQ message comprising high level business data from a source application and a request to process data by a server acting as a hub in a second hub and spoke integration system;

relaying the encrypted MQ message to a first queue manager for decoding the encrypted MQ message using a message queuing protocol located at said first queue manager;

using a the first queue manager for decrypting the MQ message using a Hyper-Text

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Transport Protocol Secure (HTTPS) security protocol;

storing the decrypted MQ message; and

transmitting, via the Internet using HTTP, and MQSeries Internet Passthrough(MQ IPT), and through the firewalls at each end of the Internet, the encrypted MQ message to a first queue manager for retransmission at a time when the network is suitable for transporting the message to the server.

19. (Previously presented) The method of claim 18, wherein the high-level data comprises customer information.

20-22. (Canceled)

23. (Previously presented) A system for integrating applications in different enterprises separated by at least one firewall, the system comprising:

a first demilitarized zone comprising at least one firewall separating a first local area network from the Internet;

a second demilitarized zone comprising at least one firewall separating a second local area network from the Internet:

wherein each local area network comprises:

a memory device comprising a software agent configured for receiving high level business data from a source application;

an encryption engine integrated into an agent device for encrypting the MQ message using Hyper-Text Transport Protocol Secure (HTTPS) to provide an encrypted MQ message:

a queue manager for receiving the encrypted high level business data and for storing the high level business data for delivery to a target server with instructions to transmit the data when the target server is ready to process the data; and

an I/O interface for transmitting, via the Internet using HTTP, and MQSeries Internet

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Passthrough (MQ IPT), the encrypted high level business data to the target server acting as a hub in another hub and spoke integration system; and running the target application, wherein the high level business data and the target server are separated by the first and second demilitarized zones.

- 24. (Previously presented) The system of claim 23, further comprising a protocol for telling a sender to stop sending messages so that it can perform bookkeeping functions.
- 25. (Previously presented) The system of claim 23, wherein the encryption engine comprises a secure sockets layer protocol.
- 26. (Currently amended) A <u>non-transitory</u> computer readable storage medium comprising code that, when executed, causes a computer to:

receiving at an agent acting as a spoke in a first hub and spoke integration system, high level business data from a source application program;

using an encryption engine integrated into the agent for encoding the high level business data according to a message queuing protocol to provide an MO message:

encrypting the MQ message using Hyper-Text Transport Protocol Secure (HTTPS) to provide an encrypted MQ message; and

transmitting, via the Internet using HTTP, and MQSeries Internet Passthrough, and through the firewalls at each end of the Internet, the encrypted MQ message to a server, acting as a hub in a second hub and spoke integration and running a destination application program for processing of the high level business data;

wherein the high level business data passes through a first demilitarized zone in the first hub and spoke integration system and a second demilitarized zone in the second hub and spoke integration system in order to reach the server;

wherein the first and second demilitarized zones each comprise at least one firewall separating its server from the Internet.

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27. (Currently amended) The non-transitory computer readable storage medium of claim 26

further comprising an instruction for storing the encrypted MQ message in a queue manager

prior to transmitting the encrypted MO message.

28. (Currently amended) The non-transitory computer readable storage medium of claim 26

further comprising an instruction for sending a message to the source application program

instructing the source application program to stop sending data.

29. (Currently amended) The non-transitory computer readable storage medium of claim 26

further comprising an instruction for maintaining a record of the messages received from the

source application program.

30. (Currently amended) The non-transitory computer readable storage medium of claim 26

wherein the record of the messages received from the source application program comprises

information on the number of messages received.

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